

Amendments to the Claims:

Claims 1-10 **(canceled)**

11. **(New)** A bearing device comprising:

a first bearing having a first retainer with a center axis along a bearing center axis; and

a second bearing having a second retainer with a center axis along said bearing center axis;

wherein said first and second bearings are arranged one upon another in an axial direction along said bearing center axis;

wherein a plurality of first grooves are provided at an outer periphery of said first retainer and are arranged to have balls disposed therein, respectively;

wherein a plurality of second grooves are provided at an outer periphery of said second retainer and are arranged to have balls disposed therein, respectively;

wherein said plurality of first grooves is constituted by N first grooves, and said plurality of second grooves is constituted by N second grooves;

wherein said first grooves, when viewed along a direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees;

wherein said second grooves, when viewed along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees; and

wherein said first and second grooves, when viewed together along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/(2N)$ degrees, and such that first radial line segments respectively connecting said center axis of said first retainer with centers of said first grooves do not overlap with second radial line segments respectively connecting said center axis of said second retainer with centers of said second grooves.

12. **(New)** The bearing device of claim 11, wherein said first retainer and said second retainer are integrated.

13. **(New)** The bearing device of claim 11, wherein
N = 3.

14. **(New)** A bearing device comprising:
a first bearing having a first retainer with a center axis along a bearing center axis;
a second bearing having a second retainer with a center axis along said bearing center axis; and
wherein said first and second bearings are arranged one upon another in an axial direction along said bearing center axis;
wherein a plurality of first grooves are provided at an outer periphery of said first retainer;
wherein a plurality of second grooves are provided at an outer periphery of said second retainer;
wherein balls are disposed in said first and second grooves, respectively;
wherein an inner sleeve is provided and supports an inner ring for said balls disposed in said first grooves of said first retainer and said balls disposed in said second grooves of said second retainer;
wherein an outer sleeve is provided and supports an outer ring for said balls disposed in said first grooves of said first retainer and said balls disposed in said second grooves of said second retainer;
wherein said plurality of first grooves is constituted by N first grooves, and said plurality of second grooves is constituted by N second grooves;
wherein said first grooves, when viewed along a direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees;

wherein said second grooves, when viewed along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees; and

wherein said first and second grooves, when viewed together along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/(2N)$ degrees, and such that first radial line segments respectively connecting said center axis of said first retainer with centers of said first grooves do not overlap with second radial line segments respectively connecting said center axis of said second retainer with centers of said second grooves.

15. (New) The bearing device of claim 14, wherein

said inner ring has a recessed groove at an outer side thereof, said recessed groove being a curved recess whose radius of curvature, at locations corresponding to locations of said balls, is slightly larger than a radius of curvature of each of said balls; and

said outer ring has a recessed groove at an inner side thereof, said recessed groove being a curved recess whose radius of curvature, at locations corresponding to locations of said balls, is slightly larger than a radius of curvature of each of said balls.

16. (New) The bearing device of claim 14, wherein

said inner ring has a recessed groove at an outer side thereof, said recessed groove being an outer peripheral groove whose radius of curvature is slightly larger than a radius of curvature of each of said balls; and

said outer ring has a recessed groove at an inner side thereof, said recessed groove being an outer peripheral groove whose radius of curvature is slightly larger than a radius of curvature of each of said balls.

17. (New) A head support device comprising

a support arm having a slider and a voice coil coupled thereto, and

a bearing device to rotatably support said support arm, said bearing device comprising:
a first bearing having a first retainer with a center axis along a bearing center axis;
a second bearing having a second retainer with a center axis along said bearing center axis; and
wherein said first and second bearings are arranged one upon another in an axial direction along said bearing center axis;
wherein a plurality of first grooves are provided at an outer periphery of said first retainer;
wherein a plurality of second grooves are provided at an outer periphery of said second retainer;
wherein balls are disposed in said first and second grooves, respectively;
wherein said plurality of first grooves is constituted by N first grooves, and said plurality of second grooves is constituted by N second grooves;
wherein said first grooves, when viewed along a direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees;
wherein said second grooves, when viewed along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees; and
wherein said first and second grooves, when viewed together along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/(2N)$ degrees, and such that first radial line segments respectively connecting said center axis of said first retainer with centers of said first grooves do not overlap with second radial line segments respectively connecting said center axis of said second retainer with centers of said second grooves.

18. (New) The head support device of claim 17, wherein
said slider and said voice coil are arranged at positions spaced apart from each other with said bearing device therebetween.

19. (New) A recording/reproducing device comprising

- a recording medium,
- a rotation driving device arranged to rotationally drive said recording medium,
- a support arm having a slider and a voice coil coupled thereto, and a head for reading information stored in said recording medium, and
- a head support device for driving said support arm, wherein said head support device comprises a bearing device, said bearing device comprising:
 - a first bearing having a first retainer with a center axis along a bearing center axis; and
 - a second bearing having a second retainer with a center axis along said bearing center axis;

wherein said first and second bearings are arranged one upon another in an axial direction along said bearing center axis;

- wherein a plurality of first grooves are provided at an outer periphery of said first retainer;
- wherein a plurality of second grooves are provided at an outer periphery of said second retainer;
- wherein balls are disposed in said first and second grooves, respectively;
- wherein said plurality of first grooves is constituted by N first grooves, and said plurality of second grooves is constituted by N second grooves;
- wherein said first grooves, when viewed along a direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees;
- wherein said second grooves, when viewed along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/N$ degrees; and
- wherein said first and second grooves, when viewed together along the direction of said bearing center axis, are circumferentially angularly spaced apart by angular intervals of $360/(2N)$ degrees, and such that first radial line segments respectively connecting said center axis of said first retainer with centers of said first grooves do not overlap with second radial line segments

respectively connecting said center axis of said second retainer with centers of said second grooves.